CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.04/JTG/CSR-03/780d/CEMENT/2014-15 Date: 06.03.2015

TEST REPORT ON CEMENT

*CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Jayanth T. Gowda** No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
*NAME OF THE WORK	:	Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.03.2015
PERIOD OF TESTING	:	04.03.2015 to 06.03.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Quality Manager

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Job No.: CTCE/BBMP/W.No.04/JTG/CSR-03/780d/SAND-Gradation/2014-15 : 06.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Jayanth T. Gowda** No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
* Name of Work	: Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 04.03.2015
Date of Testing	: 06.03.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.50	90-100	90-100	90-100	95-100
2.36	79.40	60-95	75-100	85-100	95-100
1.18	58.60	30-70	55-90	75-100	90-100
600 Micron	39.40	15-34	35-59	60-79	80-100
300 Micron	12.70	5-20	8-30	12-40	15-50
150 Micron	3.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.04/JTG/CSR-03/780d/AGG/GR/2014-15 : 06.03.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: Mr. Jayanth T. Gowda No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
* Name of Work	: Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 04.03.2015
Date of Testing	: 06.03.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.35	95-100	85-100
20	47.53	30-70	0-20
10	12.07	10-35	0-5
4.75	1.56	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.04/JTG/ STEEL/2014-15 12.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Jayanth T. Gowda** No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
Name of the Work	:	Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
Date of Test	:	12.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	516	559	13.35	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.04/JTG/ STEEL/2014-15 12.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Jayanth T. Gowda** No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
Name of the Work	:	Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
Date of Test	:	12.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	519	563	13.60	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/JTG/CSR-03/780d/CUBE/2014-15 17.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Jayanth T. Gowda** No. 152, 2nd Floor, 3rd Main, Basaveshwaranagara, Bangalore.
* Name of the work	: Repairs to footpath, drains and culverts in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/50/2014-15 Dated: 04.03.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 20.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2015	17.04.2015	8.123	478.4	21.26
2	20.03.2015	17.04.2015	8.189	513.2	22.81
3	20.03.2015	17.04.2015	8.246	493.5	21.93

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